

nord electro 5

User Manual

English

Nord Electro 5D 61
Nord Electro 5D 73
Nord Electro 5HP 73

OS Version: 1.x
Edition: D



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

ATTENTION: POUR EVITER LES RISQUES DE CHOC ELECTRIQUE, NE PAS ENLEVER LE COUVERCLE.

AUCUN ENTRETIEN DE PIECES INTERIEURES PAR L'USAGER. CONFIER L'ENTRETIEN AU PERSONNEL QUALIFE.

AVIS: POUR EVITER LES RISQUES D'INCIDENTE OU D'ELECTROCUTION, N'EXPOSEZ PAS CET ARTICLE A LA PLUIE OU L'HUMIDITET.



The lightning flash with the arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated voltage within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

Le symbole éclair avec le point de flèche à l'intérieur d'un triangle équilatéral est utilisé pour alerter l'utilisateur de la présence à l'intérieur du coffret de "voltage dangereux" non isolé d'ampleur suffisante pour constituer un risque d'électrocution.



The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

Le point d'exclamation à l'intérieur d'un triangle équilatéral est employé pour alerter l'utilisateur de la présence d'instructions importantes pour le fonctionnement et l'entretien (service) dans le livret d'instructions accompagnant l'appareil.

Instructions pertaining to a risk of fire, electric shock or injury to persons.

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

Warning - When using electric products, basic precautions should always be followed, including the following:

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Additional Safety Information

No naked flame sources, such as lighted candles, should be placed on the apparatus;

Do not use the apparatus in tropical climates.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

The mains plug is used as the disconnect device and shall remain readily operable.

Il convient de ne pas placer sur l'appareil de sources de flammes nues, telles que des bougies allumées;

L'appareil n'est pas destiné à être utilisé sous un climat tropical.

L'appareil ne doit pas être exposé à des égouttements d'eau ou des éclaboussures et de plus qu'aucun objet rempli de liquide tel que des vases ne doit être placé sur l'appareil.

Lorsque la prise du réseau d'alimentation est utilisée comme dispositif de déconnexion, ce dispositif doit demeurer aisément accessible.

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1. INTRODUCTION

THANK YOU!

Thank you for purchasing the Nord Electro 5. Our goal when developing the Nord Electro line of instruments has always been to offer the best emulations of traditional electromechanical keyboard instruments in a compact and lightweight package. With the Nord Electro 5 we have taken this several steps further by not only upgrading the existing sections but also adding a sample synthesizer section and making the Nord Electro 5 bi-timbral – a first for the Electro series. There are also new ways in which sounds can be layered and organized making the Nord Electro 5 one of the most versatile and player friendly instruments on the market today.

DISCLAIMER

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TABLE OF CONTENTS

1. INTRODUCTION	3	4. MIDI.....	14
Thank you!	3	Scenario 1: Nord Electro 5 as controller.....	14
Disclaimer.....	3	Scenario 2: Nord Electro 5 sending MIDI on Part Upper in KB Split mode.....	14
2. OVERVIEW.....	4	Scenario 3: Nord Electro 5 receiving MIDI on Part Upper in MIDI Upper Receive mode.....	15
3. USING THE NORD ELECTRO 5	5	Scenario 4: Nord Electro 5 with a sequencer.....	15
Parts	5	5. MENUS	16
Program	5	System.....	16
Storing and naming Programs.....	6	MIDI.....	16
Live Programs	6	Sound.....	16
Storing sounds to and from Live Programs	6	6. NORD SOUND MANAGER	17
Organ	7	System Requirements	17
Preset 1 and 2.....	7	Installation	17
DRWB Live and DRWB Sync.....	7	Overview	17
B3.....	7	Downloading Piano sounds.....	18
Percussion.....	8	Downloading Sample Synth samples.....	18
B3+Bass	8	Deleting sounds and samples.....	18
Pipe.....	8	Substituting sounds and samples.....	18
VX.....	8	Backing up and restoring your Nord Electro 5.....	19
Farf.....	8	Sound Up and Sound Down.....	19
Piano.....	8	Bundle Up and Bundle Down	19
Long Release	8	Backup and Restore.....	19
String Resonance.....	9	I APPENDIX: CONNECTIONS.....	20
Mono.....	9	Audio Connections.....	20
Kbd Touch.....	9	Headphones	20
Nord Piano Library size comparison chart.....	9	Left and Right Out	20
Sample Synth.....	9	Monitor In.....	20
Dynamics	9	MIDI Connections.....	20
Filter Vel.....	9	MIDI In	20
Attack, Sustain and Decay/Release	9	MIDI Out	20
Effects	10	USB Connection.....	20
Effect 1.....	10	Pedal Connections	20
Effect 2.....	10	Sustain pedal	20
Spkr/Comp	10	Rotor Pedal	20
The Rotary effect	10	Control Pedal	20
Delay.....	10	II APPENDIX: MIDI CONTROLLER LIST	21
EQ.....	11	III INDEX.....	22
Reverb	11		
Set List Mode	11		
Selecting Programs for a Song.....	11		
Storing Songs and Set Lists	12		
Storing Program changes from Set List mode	12		
List View.....	12		
Programs and Set Lists	13		
Piano.....	13		
Sample Synth.....	13		
Organize.....	13		

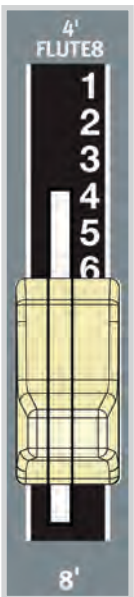
2. OVERVIEW



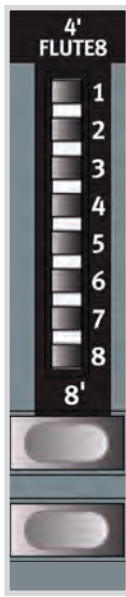
Endless knob



Standard knob



Physical drawbar (5D models)



Digital drawbar (5HP model)

Above all, the Nord Electro 5 is a player's instrument, with accessible front panel controls for virtually all performance functions.

The front panel of the NE5 has five main areas: Organ, Piano, Program, Sample Synth and Effects, each of which is discussed in detail in this manual.

Most continuous parameters, such as the master volume level are adjusted using standard *knobs*. You will also find *endless knobs*. These are used for browsing Programs, scrolling in lists etc. Some knobs serve double purposes, depending on what mode you are in. In these cases the alternate functions are written out separated by a "/," such as in **PROG/MENU**.

A parameter value can be different from the knob's physical position when you load a Program. As soon as you start turning the knob however, the value will snap to the knob's physical position. As adjustments are made, the value of the parameter will also be shown on the large OLED display.

i Pressing and holding the **SHIFT** button while turning any knob will cause that parameter's current value to be displayed without changing.

Buttons are used for turning functions on and off and switching between different settings. Many buttons serve multiple purposes, in which case a second function will be described under the button, and is accessed by pressing **SHIFT**.

The 5D models (61 and 73) contain real *Drawbars* for adjustment of organ settings. On the 5HP models buttons and LEDs are used for these functions.

The *LED* lights on the panel will most commonly be either lit with a fixed light, when their associated functions are active or non-lit when inactive. In some scenarios blinking LEDs are used. For example, blinking Menu LEDs indicate that the associated menu is in focus, and the sound source selectors for the two Parts will blink at a slow rate if the same sound source is selected for both of them.

3. USING THE NORD ELECTRO 5

PARTS

The Nord Electro 5 is a bi-timbral instrument, meaning that it allows you to play two separate sounds simultaneously. These sound sources are referred to as **PART LOWER** and **PART UPPER**. For each Part you can choose from one of the three sound engines:

- The Organ Model
- The Piano Engine
- The Sample Synth



Switch between the three sound engines by using **SELECT**, or optionally by double-clicking the **ON OFF** button. A single click will turn the respective Part on or off. The two Parts can be blended in any way you choose by turning the **PART MIX** knob. In **KB SPLIT** mode the keyboard is divided in two, with Part Lower to the left and Part Upper to the right. The split point can be adjusted by pressing the **KB SPLIT** button while turning the **VALUE** dial to select from six available split points: C3, F3, C4, F4, C5 and F5. Green LEDs are provided across the keyboard to indicate which split point is active.

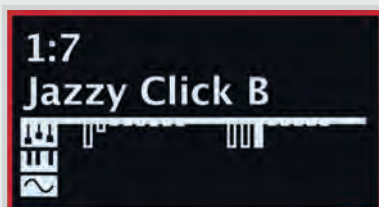
i It is also possible to use **KB SPLIT** to allow **PART UPPER** to be addressed via an external controller, or to send MIDI only from the upper half of the keyboard. These features require that an Upper Split channel is defined in the MIDI menu. You can read more about possible MIDI setups in the MIDI chapter.

The **OCTAVE SHIFT** buttons transpose their respective Parts in octave intervals. The number of octaves available for each Part to be transposed up or down depends on whether you are in **KB SPLIT** mode or not, designed to always give you access to the entire playable range for both Parts. The **SUSTPED** function will activate the sustain pedal for that Part, while **CTRLPED** turns on or off the control pedal as volume functionality.

The **TRANSPOSE** function, activated by a single press of the button, will allow the keyboard to be transposed +/- 6 semitones. Pressing and holding the **TRANSPOSE** button while operating the **VALUE** dial adjusts the amount of transposition.

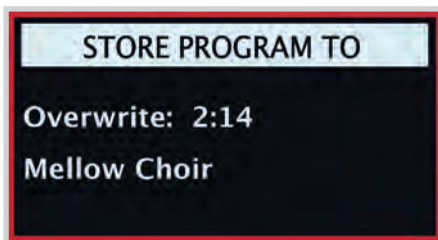
PROGRAM

Program names, along with Bank and Program numbers (separated by a colon), are shown in the display when in Program Mode. The lower half of the display contains small icons representative of the three available sound engines. Current drawbar positions are shown for the Organ model, while the names of the loaded sounds are displayed for the Piano and Sample Synth engines. An asterisk will appear to the right of the program number if/when changes are made to a Program. Note that these changes will be lost upon changing to another Program unless a **STORE** operation is performed first.



A Program contains all the settings for all of the available parameters, including sound engines and sound processing effects, for both Parts regardless of whether both Parts are active within the Program. Output volume of each Program is controlled using the **GAIN** knob. This value is also stored within the Program, allowing adjustment of relative volumes between Programs. The Nord Electro 5 can store up to 400 user Programs organized in eight banks holding 50 Programs each. To scroll through your Programs simply turn the **PROG** dial.





STORING AND NAMING PROGRAMS

For saving changes made to an existing Program, press **STORE** to enter the STORE PROGRAM TO screen. The display now shows you where the Program will be stored to. Optionally, you can now use the **PROG** dial to choose a different location.

Press **STORE** again to go through with the operation. A pop-up text on the display confirms that the store was successful.

Pending store operations can be aborted by pressing **EXIT**. The text "Store aborted!" verifies that no changes were saved.

To name your new Program:



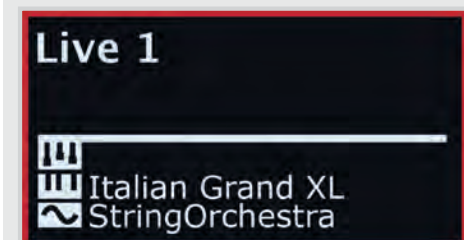
1. Select **STORE AS...** and you will now see the STORE PROGRAM AS screen. The cursor will highlight the first character of the name
2. Press-hold the **SHIFT** button and an alphanumeric row of letters will show
3. Turn the **VALUE** knob until the desired character is highlighted
4. Release **SHIFT** and the cursor will jump to the next letter slot. Optionally use the **VALUE** dial to select a different position within the name

If needed, use the **DEL** function to delete the selected character or **INS** to insert a blank space at the current cursor position.



Repeat the actions above until the new name is complete. When finished, press **STORE** again and the STORE PROGRAM TO screen will show. Again, use the **PROG** dial to if you want to select a different store location.

LIVE PROGRAMS



For Live Programs, the display is similar to that of regular Programs, but will read Live 1-3, depending on which is selected. To select a Live Program, press any of the Live 1-3 buttons in the Program area.



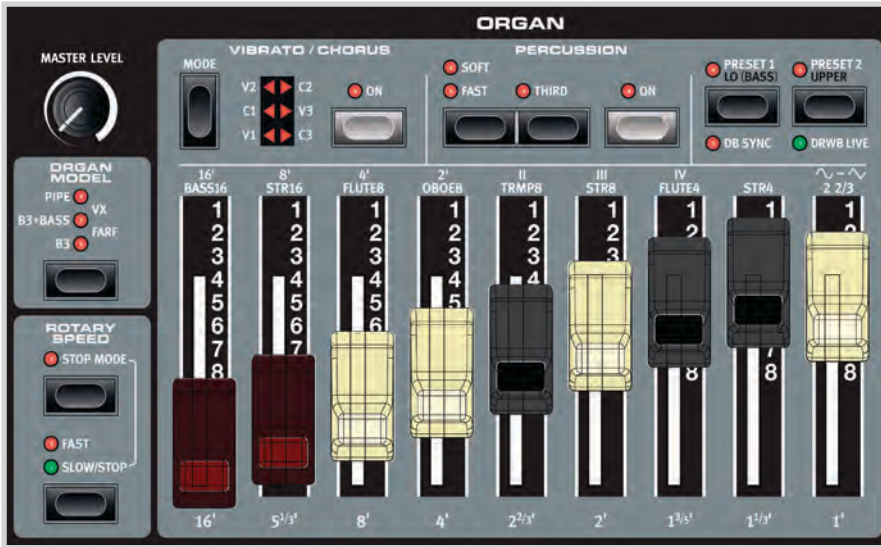
The Nord Electro 5 has three easy-to-access Live Programs, differing from regular Programs in that edits you make are automatically stored. Even when exiting a Live Program, or powering off the machine your sounds will remain the way you left them, without the need for storing.

STORING SOUNDS TO AND FROM LIVE PROGRAMS

Sounds created in Live mode can be stored to a Program bank. To do this, first press **STORE**, or optionally **STORE AS...** and then the Program button. From here you can save the Live sound over an existing Program, or select an unused location using the **PROG** dial.

Similarly, you can also copy a Program from a Program bank to a Live Program. This is done from Program mode by pressing **STORE** and then selecting one of the three **LIVE** Programs. Confirm the action with a second click on the **STORE** button.

ORGAN



The Organ model faithfully reproduces the tonal characteristics of both tone wheel and transistor organs, with a vibrant Principal Pipe organ simulation added to complete the sonic palette. Altering the sound within the Organ section is primarily done through the use of **DRAWBARS**, whose settings are stored together with your Program.

PRESET 1 AND 2

For each Program the Organ model can hold two different drawbar settings in its memory, graphically visible in the display, selected by pressing **PRESET 1** or **PRESET 2** respectively. Additionally, Vibrato/Chorus and Percussion can be turned on or off with each Preset.



DRWB LIVE AND DRWB SYNC

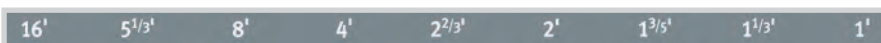
The **DRWB LIVE** option can be used if you would like a particular Program to always use the actual positions of the drawbars. The **DRWB SYNC** command is used for instantly applying the current drawbar positions to the active organ preset.

i These options are only present on and relevant to the Nord Electro 5D models.

B3

Tone wheel organs use notched steel disks - **TONE WHEELS** - to produce sine waves, generated as a wheel rotates at its designated speed close to a corresponding electromagnetic pick-up. The generated tone, whose pitch depends on the number of notches of that particular disk, is then transformed and amplified, either through the use of a built-in speaker system or through an external cabinet depending on the organ model. The details of this construction and all other aspects of the original design - including its imperfections - are very closely simulated by the B3 model of the Nord Electro 5.

The nine drawbars of the Nord Electro 5 correspond to the available registers on the original B3 model. These are in turn named according to the approximate pipe lengths emulated by its tone wheels. These "pipe lengths", 16' – 1' are printed at the bottom of the drawbar section. The 8' drawbar is sometimes referred to as the *fundamental*, being the root of the overtone series that form the basis for the drawbar selections and the B3 sound.



The Vibrato and Chorus effects of the B3 model use a simulation of the original rotating scanner based design. Both effects have three intensities to choose from, V1-V3 and C1-C3 respectively.



PERCUSSION

The harmonic percussion feature is available in B3 mode. When switched on, an attack transient is added to the organ tone giving it a more percussive character. The controls within this section let you choose between *second* or *third* harmonics, *slow* or *fast* decay and *soft* or *hard* percussion levels.

B3+BASS

One of the features new to the Nord Electro series is the **B3+BASS** mode, which will give you the traditional B3 Bass tone wheels - 16' and 8' - in the left hand and a full B3 in the right. To enable this feature, select Organ for both parts and enable KB Split. In non-split mode the B3+Bass setting will behave as a normal B3.

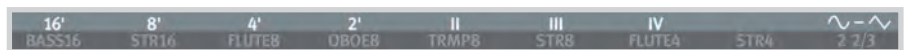
- ❗ *The SOUND menu is home to some additional settings, relevant to the various features of the B3 model. See "Sound" on page 16 for details.*

PIPE

Another new addition is the **PIPE** organ model which uses physical modelling to produce a versatile and carefully tuned principal pipe section. Its pipe lengths match those of the B3 tone wheel markings, also ranging from 16' to 1'.

VX

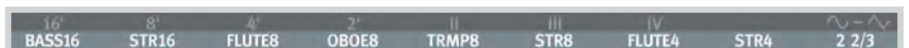
The tonal controls for the **VX** transistor organ model range from 16' to IV, including the fundamental and its octaves, as well as various combinations of harmonics. Additionally, there is a drawbar for adjusting the sound character between a softer and a brighter (less filtered) mode represented by the sine and sawtooth waveforms.



The VX organ has three Vibrato modes to choose from - V1-V3 - each increasing its rate and intensity.

FARF

The **FARF** model is based on another easy-to-recognize transistor organ and has its drawbars labeled after the original *Bass 16 – 2 2/3* tabs. In Farf mode the drawbars are configured as on/off switches in order to match the original design.



The Vibrato/Chorus options for the Farf model consist of four different settings, V1-V2 and C2-C3. In this case all positions represent variations on the original Vibrato model.

PIANO

The Piano engine has a *six-part type selector*, each type containing a range of individual pianos and keyboard instruments, accessible with the selector below the numeric **MODEL** display. The Program area display will always show you the name of the currently loaded Piano sound.

From www.nordkeyboards.com you can download any number of piano sounds you like - in addition to the ones that come pre-installed. Nord Piano Library sounds come in four different sizes, letting you choose which range of features you want for each piano sound (see table below). The internal memory of the Nord Electro 5 can hold up to 1 GB worth of piano sounds.

- ❗ *Refer to the Nord Sound Manager section for details on downloading and transferring sounds.*

LONG RELEASE

The first option of the **ACOUSTICS** section is **LONG RELEASE**, which adds a slightly longer release to acoustic and electric pianos. This can for instance be useful for achieving a more legato character in your playing.

STRING RESONANCE

For sounds that support this feature **STRING RES** can be activated. When active, notes that you play also affect other "strings" within the loaded piano sound, making them resonate sympathetically with the played note, just like with a real piano.

MONO

In **MONO** mode all stereo sampled pianos will be played back in mono. The mono versions of our piano sounds are specially designed to provide the player with optimal sound and playing experience, even in mono.

KBD TOUCH

How a piano sample responds to keyboard touch can be adjusted according to what fits your playing style, or the context which you are performing in. With higher **KBD TOUCH** settings, less force is required to trigger high velocity levels and vice versa.

NORD PIANO LIBRARY SIZE COMPARISON CHART

	S	M	L	XL
Stereo sampled	✓	✓	✓	✓
Detailed velocity mapping	✓	✓	✓	✓
String resonance for middle region of the range		✓		
String resonance for entire range			✓	✓
Fully mapped keyboard				✓



SAMPLE SYNTH

The Sample Synth is a powerful addition to the Nord Electro 5's Organs and Piano sections. The internal memory can hold up to 256 MB of samples. The knob below the **SAMPLE** display is used to scroll through the available samples. In places 99-159 within the list, samples are displayed using the numbering A0-F9.

New samples can be downloaded from www.nordkeyboards.com or you could create your own samples using the Nord Sample Editor, also available from our website.

📌 See the Nord Sound Manager section for details on downloading and transferring sounds.

DYNAMICS

With the **DYNAMICS** function it is possible to select four different modes of velocity response. If this function is deactivated, samples will always play back at full velocity. When active, the three different settings will give you increasing degrees of dynamic range.

FILTER VEL

With **FILTER VEL** a low pass filter is applied to the Sample Synth, which reacts to the velocity with which a note is played. Generally, this gives the sound a more dampened quality with low input velocities and a brighter character with higher velocity.

ATTACK, SUSTAIN AND DECAY/RELEASE

Another useful feature of the Sample Synth is the envelope section. With the **ATTACK** knob you set the time it takes for the sample to reach its full level, whereas **DECAY/RELEASE** will let you adjust how quickly the sample fades after having been triggered. At 12 o'clock the sample is in **SUSTAIN** mode - meaning that a (looped) sample will sound as long as the key is pressed. Settings past 12 o'clock determine how long the sample sounds after the key has been released.



EFFECTS

The Effects section consists of four different insert effect units capable of processing the sounds of either Part Lower or Upper. This section also includes an Equalizer, which can be used to process either or both Parts, and a global Reverb effect. Each unit, apart from the reverb has a **PART SELECT** control which can be set to **LO** (Part Lower), **UP** (Part Upper) or be inactivated which will bypass the effect.

i In general the effects are applied in the order in which they appear on the panel, but there are some exceptions. For example, the Pan effect of the Effect 1 section is placed after the Spkr/Comp effects (excluding the Rotary), in order for it to be as usable as possible.



EFFECT 1

Effect 1 offers Tremolo, Pan, Wah and Ring Modulator effects. The **CTRL PED** function lets you control any of these using a Control Pedal. Try using the pedal together with the Wah, for some realistic Wah Wah playing or with a Pan effect to gain some real time control of the stereo imaging.

EFFECT 2

Effect 2 gives you a selection of modulation effects, including two types of Phaser, Flanger, two Chorus types and a new Vibe effect. This effects section also has an additional **DEEP** mode available, which will give all effects a more pronounced character.



SPKR/COMP

The Spkr/Comp section contains four different amplifier and cabinet models: *Small*, *JC*, *Twin* and *Rotary*. There is also a *Drive* (tube distortion) and a *Comp* (compressor) effect, the latter being usable for controlling the dynamic range of a sound. The knob controls the **DRIVE** amount, either of the tube distortion or the selected amp model, or the compression amount when in **COMP** mode.

THE ROTARY EFFECT

The Rotary speaker effect of the Nord Electro 5 is modeled after a Leslie 122 and can be controlled in a number of different manners. The **ROTARY SPEED** switch of the Organ section toggles between **FAST** and **SLOW** rotation speeds, and in **STOP MODE** between fast or stopped rotors. Rotary Speed can also be controlled by attaching a pedal switch, sustain pedal or the optional Nord Half Moon switch to the Rotor Pedal jack.

When both Part Lower and Part Upper are set to Organ, and Rotary is selected, the Spkr/Comp effect is global.

i Within the Rotary section of the SOUND menu you can make some more advanced adjustments to the behaviour of the Rotary speaker. See "Sound" on page 16 for details.

DELAY

The stereo Delay effect features controls for adjusting the **DRY/WET** signal mix, a selection of four different **FEEDBACK** intensity levels and a **TEMPO** button.

TAP the Tempo button repeatedly to enter a tempo, which will show up briefly as a BPM value on the display. Delay tempo can also be **SET** by pressing down on the Tempo button while turning the **VALUE** dial.

When Feedback is deactivated, only the initial delay tap will sound. When active, the lowest setting gives you a small number of repeats while the highest gives you a very long feedback tail. Use the Dry/Wet mix control to find the right balance between the unprocessed and processed signals.

There is also an optional **PING PONG** mode in which the delay repeats are alternated between the left and right channels.



EQ

The EQ is a purposeful and efficient 3-band equalizer with fixed **BASS** and **TREBLE** bands, plus a mid range section which is sweepable, using the **FREQ** knob. The bass frequency is set to 100 Hz and the treble at 4 kHz, while the user adjustable mid frequency range lies between 200 Hz and 8 kHz. Each band can be boosted or attenuated by 15 dB. The EQ can be used in LO, UP or LO + UP configurations.



REVERB

The Reverb is a global room simulator effect which processes the summed stereo signal of Part Lower and Part Upper. Besides adjusting the **DRY/WET** mix control, you can also switch between *Room*, *Stage* and *Hall* reverb algorithms, of which the latter two also have *Soft* versions giving the reverb a less bright character.



SET LIST MODE

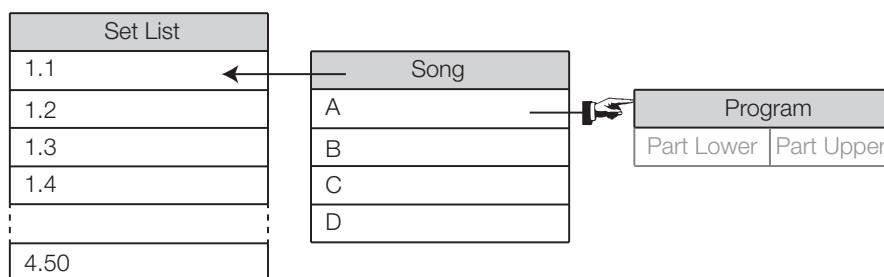
To enter Set List mode, press the Set List button. A green LED will indicate that this mode is active and the display will show the currently selected Set List, the name of the Song as well as the name of the active Program. By default, the Nord Electro 5 contains ten example Songs showing how you could group Programs based on genre. These can of course be replaced or renamed as you like.



On the Nord Electro 5, Set Lists can be used to group Programs in a manner that fits songs within a particular set, concert, genre or any other context. Each Set List can contain a number of entries, *in this manual* referred to as *Songs*, which each makes up to four different Programs instantly accessible from the **A-D** buttons within the Program area.

SELECTING PROGRAMS FOR A SONG

When in Set List mode pressing down on either of the A-D buttons will temporarily enter Program mode, allowing you to select the Program you wish to use for that particular slot, using the **PROG** dial.



The diagram shows how Set Lists, Songs and Programs relate to each other. Note that all Programs are stored only as references within the Set Lists. This means that any change made to a Program will affect how it sounds in all Songs and Set Lists where it is being used.

STORING SONGS AND SET LISTS



Set List entries are stored in much the same way in which you would store a Program. When you have made the selection of Programs you want to use within a particular Song, follow the steps below:

1. Select **STORE AS...** and you will now see the STORE AS screen. The cursor will highlight the first character of the name
2. Press-hold the **SHIFT** button and an alphanumeric row of letters will show
3. Turn the **PROG/MENU** knob until the desired character is highlighted
4. Release **SHIFT** and the cursor will jump to the next letter slot. Optionally use the **VALUE** dial to select a different position within the name

Optionally, use the **DEL** function to delete the selected character or **INS** to insert a blank space at the current cursor position.

Repeat the actions above until the name of your Song is complete. When finished, press **STORE** again and the STORE TO screen will show. Turn the **PROG** dial for selecting a different store location.

To save changes made to an existing Song, simply press **STORE** to enter the STORE TO screen.

STORING PROGRAM CHANGES FROM SET LIST MODE

You also have the option to store an edited Program from within Set List mode. Simply press down on the **A-D** button corresponding to the Program you want to store, and from there proceed as usual when storing a Program (see "Storing and naming Programs" on page 6).

LIST VIEW



On the Nord Electro 5, a new List View mode enables easy browsing and navigation of *Programs*, *Set Lists*, *Piano* sounds and *Sample Synth* samples.

PROGRAMS AND SET LISTS

To scroll through your Programs or Set List entries, turn the **LIST** dial while pressing down on the **LIST VIEW** button.

PIANO

Use the **LIST VIEW** control within the Piano section, while pressing down on **LIST VIEW** in the Program Area to see a list of your piano sounds. Turn the **LIST** dial to scroll up or down the list. The sounds can also be stepped through by using the six part type selector and model controls of the Piano section.



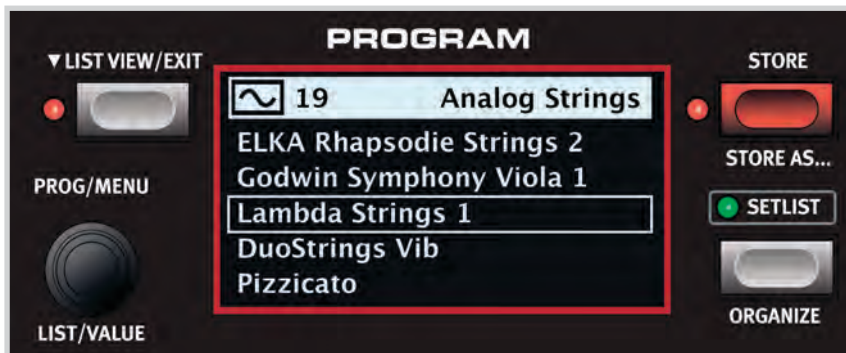
SAMPLE SYNTH

To see a list of all available samples, press down on **LIST VIEW** in the Program area while turning the **LIST VIEW** knob of the Sample Synth section. The top part of the display will show the numeric list location of the selected sample.

To return from List View, simply press **EXIT** and you will be back to your previous Program or Set List screen.



i When browsing the sample list, press down on **SHIFT** and **LIST VIEW** to see additional information about the current sample, including its size and author.



ORGANIZE



With the **ORGANIZE** function, Programs and Songs can easily be moved to another position within the same or a different Bank.

The Organize command can be used to take you directly to List View's organize mode from a Program or Song in a Set List, or be accessed the same way when already in List View. Use the **LIST** dial to move the current selection - indicated by two arrows - up or down the list.

4. MIDI

The Nord Electro 5 is designed to be as flexible as possible in regards to how it can be used together with external controllers, sequencers and sound modules. This section illustrates the most common setups for using the MIDI functionality of the Nord Electro 5 together with other equipment. Each scenario requires that appropriate settings are made in the MIDI Menu and/or the KB Split section. The tables will show you what parameters needs to be adjusted in each case. Also, the Nord Electro 5 can both send and receive an extensive set of MIDI Controller messages. For a detailed list of these, see page 21.

SCENARIO 1: NORD ELECTRO 5... AS CONTROLLER

MIDI Menu settings	
Parameter	Setting
Local Control Mode	On or Off
Channel Global	1-16
Channel Lower Rcv	1-16 or Off
Channel Upper Rcv	1-16 or Off
Channel Upper Split	1-16 or Off

KB Split settings	
Parameter	Setting
KB Split	Off
KB Split Point	-

The Nord Electro 5 can be used as a controller keyboard, in cases where you want to play the sounds of an external sound module or synthesizer. Local Control Mode can be set to On or Off depending on if you want to use the Nord Electro 5 as part of a layered sound or not.



MIDI Connections: Connect a 5-pin MIDI cable between the MIDI OUT of the Nord Electro 5 and the MIDI IN of the external module.

SCENARIO 2: NORD ELECTRO 5... SENDING MIDI ON PART UPPER IN KB SPLIT MODE

MIDI Menu settings	
Parameter	Setting
Local Control Mode	On
Channel Global	1-16 or Off
Channel Lower Rcv	1-16 or Off
Channel Upper Rcv	1-16 or Off
Channel Upper Split	1-16

KB Split settings	
Parameter	Setting
KB Split	On
KB Split Point	C3-F5

With this setup, the upper part of the keyboard can be used to send MIDI to an external sound module or synthesizer. Useful for cases where you want to play one of the Nord Electro 5 sound engines in the left hand, but the sound of a different unit in your right. The Part Upper sound engine can either be turned off entirely, or be set to a sound that you want layered with the sound of the external unit.

MIDI messages for sustain and control pedal are only sent if their respective functions are activated for Part Upper. Also, Transpose and Octave Shift settings will affect the outgoing MIDI stream, unlike with MIDI sent on the global channel.

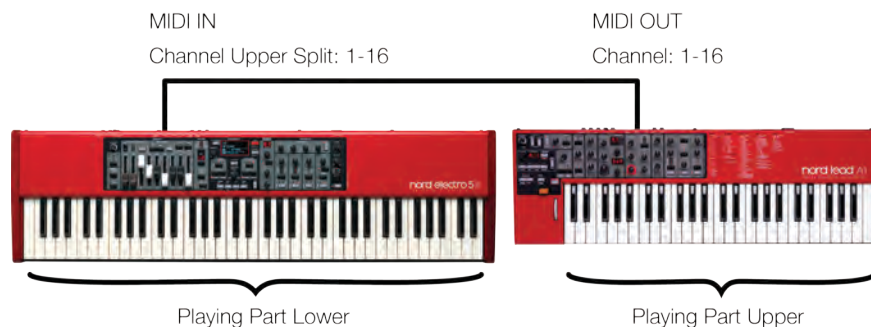
Note that the Nord Electro 5 will not send any MIDI generated above the Split point on the global channel in this scenario. This is to avoid the external unit receiving double Note On or other MIDI messages. To enable this setup, Channel Upper Split in the MIDI menu needs to be set to a discrete MIDI channel.



MIDI Connections: Connect a 5-pin MIDI cable between the MIDI OUT of the Nord Electro 5 and the MIDI IN of the external module.

SCENARIO 3: NORD ELECTRO 5... RECEIVING MIDI ON PART UPPER IN MIDI UPPER RECEIVE MODE

In this scenario, the Nord Electro 5 is set up to receive MIDI on Part Upper, using an external keyboard to play its corresponding sound engine. Part Lower is played with the keyboard of the Nord Electro 5, using one of the remaining sound engines. In this setup, Part Lower will utilize the entire keyboard of the Nord Electro 5 and Part Upper can only be addressed through MIDI sent to the Upper Split channel.



MIDI Connections: Connect a 5-pin MIDI cable between the MIDI IN of the Nord Electro 5 and the MIDI OUT of the external keyboard.

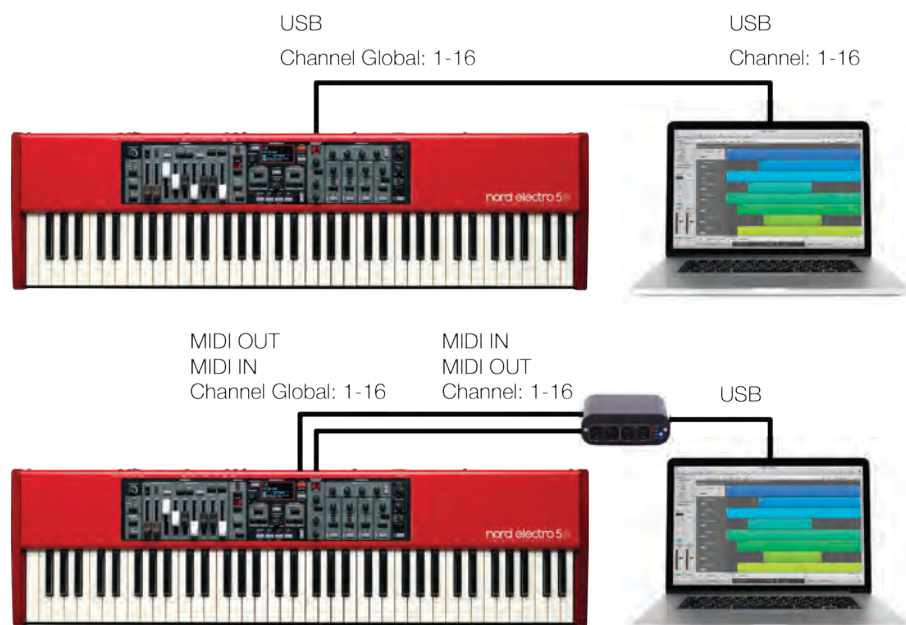
MIDI Menu settings	
Parameter	Setting
Local Control Mode	On
Channel Global	1-16 or Off
Channel Lower Rcv	1-16 or Off
Channel Upper Rcv	1-16 or Off
Channel Upper Split	1-16

KB Split settings	
Parameter	Setting
KB Split	On
KB Split Point	MIDI Upper Rcv

SCENARIO 4: NORD ELECTRO 5... WITH A SEQUENCER

There are a few different ways in which you could set up the Nord Electro 5 together with a sequencer. You could either simply use it as a controller keyboard (see Scenario 1) to control software synths in a DAW setup, or use the sequencer for recording of MIDI data, in turn played back by the Nord Electro 5.

The most common way of doing this would be to use the global MIDI channel both for sending MIDI from the Electro 5 and receiving it back from the sequencer. That way the Nord Electro 5 will play back any sound the same, whether controlled by the local keyboard or the sequencer. To avoid double Note On messages, which may cause sound defects, make sure that Channel Lower/Upper Rcv are both set to Off.



MIDI Connections: Connect a USB cable between the Nord Electro 5 and your computer, or a 5-pin MIDI cable between the MIDI OUT of the Nord Electro 5 and the MIDI IN of your MIDI interface.

MIDI Menu settings	
Parameter	Setting
Local Control Mode	Off
Channel Global	1-16 or Off
Channel Lower Rcv	Off
Channel Upper Rcv	Off
Channel Upper Split	1-16 or Off

KB Split settings	
Parameter	Setting
KB Split	On
KB Split Point	MIDI Upper Rcv

5. MENUS

Global system and MIDI settings, as well as global settings for the Piano, B3 and Rotary sections are accessed respectively through the **SYSTEM**, **MIDI** and **SOUND** menu buttons. Menu items are scrolled by using the **MENU** dial, and values changed by turning the same dial while pressing **SHIFT**.



Any changes made will automatically be stored until changed again except for MIDI Local Control On/Off which will return to its default Local On setting everytime the Nord Electro 5 is powered on.

SYSTEM

1 - MEMORY PROTECT is set to *On* by default when the NE5 leaves the factory to prevent any accidental overwriting of original Programs. Set to *Off* when you want to store Programs of your own.

2 - GLOBAL TRANSPOSE is 0 by default but could be set to anywhere between -6 to +6 semitones.

3 - FINE TUNE is set to 0 cent 440Hz but could be set to ± 50 cent = 1 semitone.

4 - SUSTAIN PEDAL is set to *Auto* by default but could also be set to *Closed* and *Open* depending on the polarity of your pedal. The pedal type will automatically be determined when in *Auto* mode.

5 - CONTROL PEDAL TYPE gives you a range of options corresponding to the most common makes and models. Possible settings are: *Roland EV7*, *Yamaha FC7*, *KORG EXP2*, *KORG XVP10*, *Boss FV500L* and *Fatar SL*.

6 - ROTARY CONTROL can be set to any of the three settings, *Open*, *Closed* and *Half Moon* depending on how you want your switch pedal to control the Rotary Effect and whether you are using a Half Moon Switch.

7 - ROTARY PEDAL can be set to either *Toggle* or *Hold*. If a pedal is used to control the Rotor Speed, Hold mode will give you Fast speed while the pedal is pressed down. In Toggle mode stepping on the pedal will switch between Fast and Slow/Stop Mode.

8 - ORGAN B3 TRIG gives you the option of *Fast* and *Slow* trigger modes. In Fast mode notes will be triggered earlier when pressing down on a key. This menu option is not present on the Nord Electro 5 HP model.

9 - OUTPUT ROUTING MODE lets you choose either the default *Stereo* option or the *PartL : L*, *PartU : R* setting. In *Stereo* mode Part Lower and Part Upper will be routed to both outputs, in stereo. With *PartL : L*, *PartU : R* activated Part Lower is routed to the Left output and Part Upper to the Right, both being in mono.

MIDI

1 - LOCAL CONTROL MODE can be set to either *On* or *Off* and will be *On* everytime the Nord Electro 5 is powered up. This setting determines whether the keyboard and panel controls are used to play back sounds and alter parameters directly, or are sent only via MIDI.

2 - CHANNEL GLOBAL sets the channel the Nord Electro 5 transmits and responds to. Could be set to 1–16, or *Off*. Default is 1.

3 - CHANNEL LOWER RECEIVE determines the MIDI channel which Part Lower responds to. Can be set to 1–16 or *Off*. Default is *Off*.

4 - CHANNEL UPPER RECEIVE sets the MIDI channel which Part Upper responds to. Can also be set to 1–16 or *Off*. Default is *Off*.

5 - CHANNEL UPPER SPLIT sets the MIDI channel used in MIDI Upper Split mode. Can be set to 1–16 or *Off*. Default is *Off*.

6 - CONTROL CHANGE MODE determines how the Nord Electro 5 handles MIDI CC (Control Change) messages. Possible settings are *Off*, *Send*, *Receive* or *Send/Receive*.

7 - PROGRAM CHANGE MODE affects how the Nord Electro 5 handles Program Change MIDI messages. Possible settings are *Off*, *Send*, *Receive* or *Send/Receive*.

SOUND

1 - PIANO STRING RES determines the sound level of the Piano String Resonance. Range is from -6dB to +6dB. Default value is 0dB.

2 - B3 TONEWHEEL MODE sets the amount of tonewheel crosstalk and cable leakage for the B3 Model between *Clean*, *Vintage 1*, *Vintage 2* or *Vintage 3*. *Vintage 1* is default.

3 - B3 KEY CLICK sets the amount of key click for the B3 Model to *Low*, *Normal*, *High* or *Higher*. *Normal* is default.

4 - B3 KEY BOUNCE turns the key bounce *On* or *Off*. When *On* the key off click is boosted if the key is released quickly.

6 - B3 PERC DB9 MUTE will in *On* mode mute the 9th drawbar when percussion is activated just as with the original instrument but could also be set to *Off*.

7 - B3 PERC DECAY FAST sets the Fast decay time of the B3 percussion to *Short*, *Medium* or *Long*. *Medium* is default.

8 - B3 PERC DECAY SLOW sets the Slow decay time of the B3 percussion to *Short*, *Medium* or *Long*. *Medium* is default.

9 - B3 PERC VOLUME NORMAL sets the normal percussion volume to *Low*, *Medium* or *High*. *Medium* is default.

10 - B3 PERC VOLUME SOFT sets the soft percussion volume to *Low*, *Medium* or *High*. *Medium* is default.

11 - ROTARY SPEAKER TYPE can be set to *122* or *122Close*, the latter being a close miked version of the same speaker emulation. *122* is default.

12 - ROTARY BALANCE sets the balance between the bass rotor and treble horn 70/30, 60/40, 50/50, 40/60 and 30/70. Default is 50/50.

13 - ROTARY HORN SPEED could be set to *Low*, *Normal* or *High*. Default is set to *Medium*.

14 - ROTARY HORN ACC sets the acceleration and retardation of the rotary bass horn to *Low*, *Normal* or *High*. Default is set to *Normal*.

15 - ROTARY ROTOR SPEED sets the speed of the rotary bass horn to *Low*, *Normal* or *High*. Default is set to *Normal*.

16 - ROTARY ROTOR ACC sets the acceleration and retardation of the rotary treble horn to *Low*, *Normal* or *High*. Default is set to *Normal*.

6. NORD SOUND MANAGER

The Nord Sound Manager is your tool of choice for transferring sounds to and from the Nord Electro 5, organizing your Programs, Set Lists and sounds, backing up your instrument and more. The application is available in both Windows and Mac OSX versions. This chapter will describe the most common operations within the Nord Sound Manager - for a complete guide to the application, please refer to the Nord Sound Manager manual, available for download from www.nordkeyboards.com.

SYSTEM REQUIREMENTS

The Nord Sound Manager and Nord Sample Editor is compatible with computers running Mac OS 10.4 or later, Windows XP, Windows Vista, Windows 7 and Windows 8.

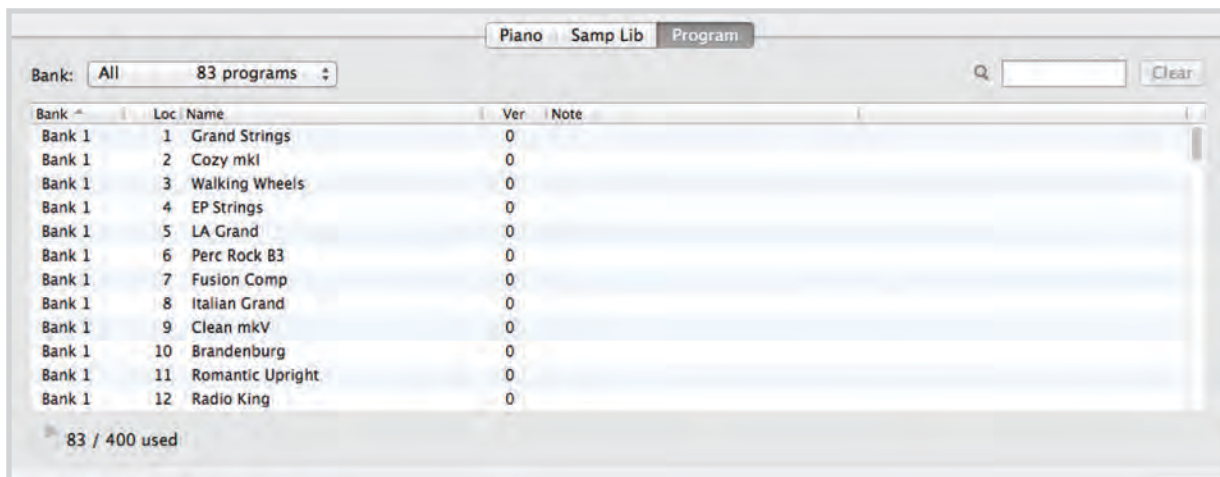
INSTALLATION

The first step is to download Nord Sound Manager from www.nordkeyboards.com. This way you can also be sure that you are using the latest available version of the application.

Windows: Double click on the "Nord Sound Manager v6.XX Setup.exe" file and follow the instructions. After the installation completes you will find the application within your Start menu.

Max OSX: Double click on the "Nord Sound Manager v6.XX.dmg" file and drag the Nord Sound Manager application from the virtual hard drive into your Applications folder.

OVERVIEW



The main area of the Nord Sound Manager is the list view, divided into tabs representing the three partitions: **Piano**, **Samp Lib** and **Program**. Within each tab the content of the partition is listed. At the top of the list view is a dropdown Bank selector and at the bottom a Partition Memory Indicator, showing how much of the space within each partition is being used.



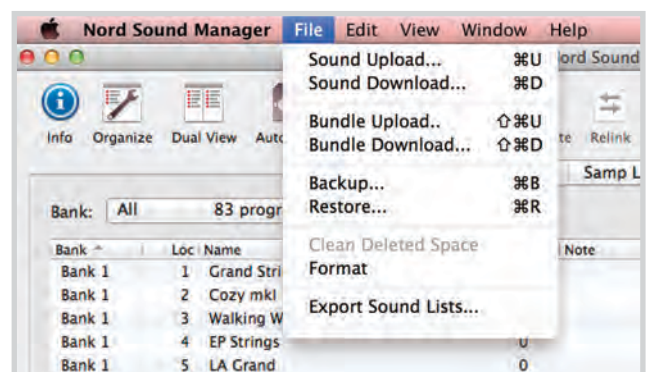
Towards the top of the application interface is the **Toolbar**, giving you quick access to the operations most commonly performed. Sometimes a tool icon will be grayed out, meaning it doesn't apply to the currently selected partition.

There is also a **Top Menu** containing all the functionality available from the toolbar and a few more advanced options.

DOWNLOAD AND TRANSFER SOUNDS AND SAMPLES

Sounds from both the Nord Piano Library and the Nord Sample Library can freely be downloaded from www.nordkeyboards.com.

The ever growing **Nord Piano Library** features a large variety of grand pianos and uprights, as well as electric pianos, clavichords and harpsichords. A broad selection of these comes shipped with your instrument, but you may eventually want to exchange some of these for new sounds, or perhaps a different size of the same piano sound. To see what sets the different Nord Piano Library sizes apart, see table "Nord Piano Library size comparison chart" on page 9.

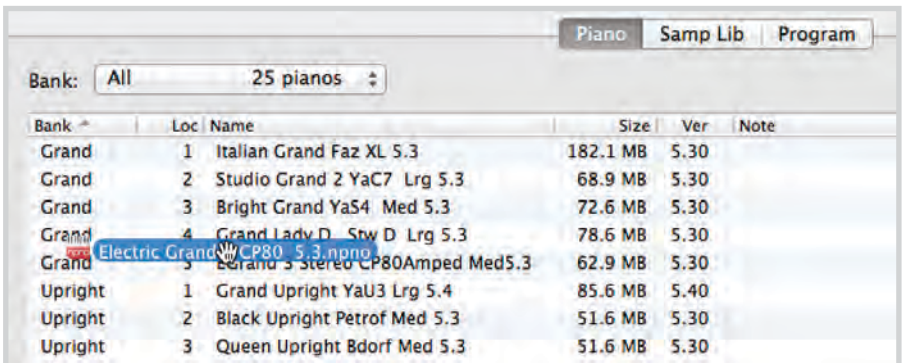


The **Nord Sample Library** is a broad collection of quality sampled sounds that cover most categories and instrument families, from vintage to modern and acoustic to electric.

- ❗ *All our sounds and samples utilize the lossless compression algorithm implemented in the playback engines of the Nord Electro 5, making it possible to fit more sounds into the memory of the machine without compromising their quality.*

DOWNLOADING PIANO SOUNDS

To download a new Piano sound, navigate to the Nord Piano Library section of www.nordkeyboards.com. Simply click on the download link of the instrument and size you want, and the sound will be downloaded to your computer. Make sure your Electro 5 is connected and that the Nord Sound Manager application is open. Select the Piano tab within the application, and then drag the downloaded .npno file onto the list area. The sound will automatically be transferred to your instrument.

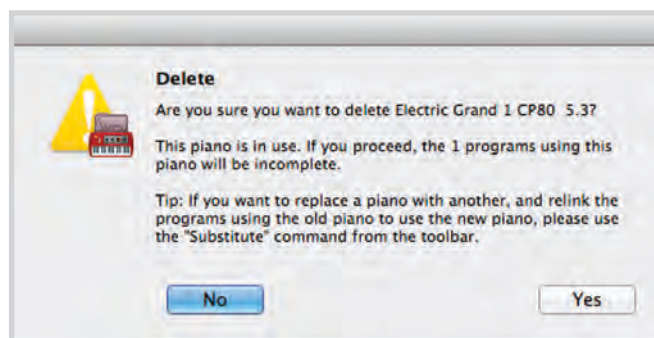


Bank	Loc	Name	Size	Ver	Note
Grand	1	Italian Grand Faz XL 5.3	182.1 MB	5.30	
Grand	2	Studio Grand 2 YaC7 Lrg 5.3	68.9 MB	5.30	
Grand	3	Bright Grand Ya54 Med 5.3	72.6 MB	5.30	
Grand	4	Grand Lady D. Strw D Lrg 5.3	78.6 MB	5.30	
Grand	5	Electric Grand 1 CP80 5.3.npno	62.9 MB	5.30	
Upright	1	Grand Upright YaU3 Lrg 5.4	85.6 MB	5.40	
Upright	2	Black Upright Petrof Med 5.3	51.6 MB	5.30	
Upright	3	Queen Upright Bdorf Med 5.3	51.6 MB	5.30	

DOWNLOADING SAMPLE SYNTH SAMPLES

New samples for the Sample Synth are downloaded from the Nord Sample Library section of www.nordkeyboards.com. Most of the sounds are downloaded as bundles, and come in a **.zip** archive containing individual **.nsmp** files. Once downloaded, decompress the archive and drag the samples you want onto the list area of the **Samp Lib** tab.

DELETING SOUNDS AND SAMPLES



If the content of the Piano or Samp Lib partitions are approaching their limits you may have to delete sounds or samples from the instrument. Within their respective tab, select the Piano sound or Samp Lib sample you want to delete, and click the **Delete** icon in the toolbar. A dialog will appear, asking you to confirm the delete.

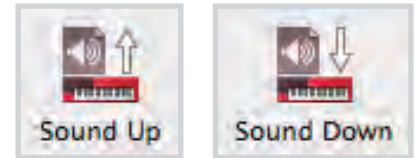
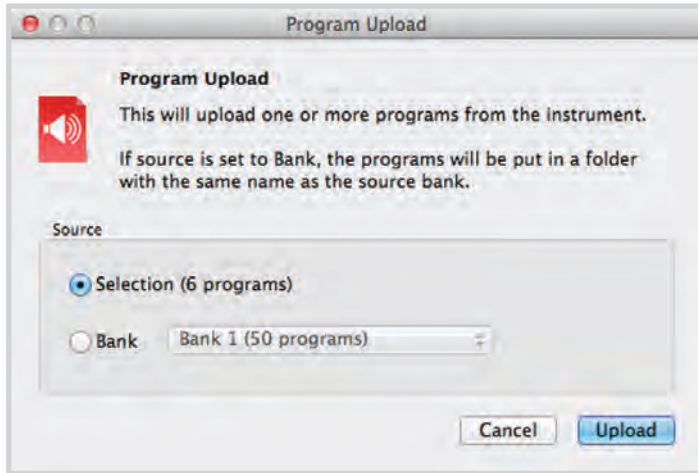
SUBSTITUTING SOUNDS AND SAMPLES

You also have the option to substitute a sound or sample for another, which is useful if you want your Programs to stay intact but for example switch to a different sized piano, or different version of a sampled instrument. In this case, select the sound or sample you want to substitute from the tab list and click the **Substitute** button. A dialog will open, asking you to locate the sound or sample you want to use instead. Browse to the **.npno** or **.nsmp** file of your choice and click Substitute in the dialog window.

BACKING UP AND RESTORING YOUR NORD ELECTRO 5

Programs created on your Electro 5 can be backed up to your computer, either individually as **.ne5p** files or bundled together in the **.ne5pb** format. A Bundle will also include all the sounds and samples used for that selection of Programs.

SOUND UP AND SOUND DOWN

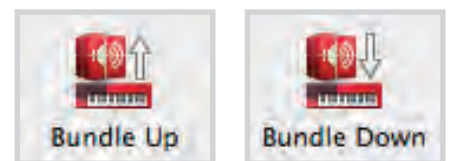


To upload as individual files, select the Programs, pianos or samples you want from the list of their respective tabs and click **Sound Up** in the toolbar and a dialog will open. You now have the choice to upload the selection you've made, or an entire bank. Make your decision and then browse to the folder where you want your selection to be stored.

To download pianos, samples or Programs to the Nord Electro 5 select the relevant tab and click the **Sound Down** button of the toolbar. The **source** area within the following dialog gives you the option to browse for files or a folder containing files of the type you want. In the **destination** area you decide whether to add the downloaded files to an existing bank or replace the entire content of the bank you choose.

BUNDLE UP AND BUNDLE DOWN

To upload a Bundle make the selection of Programs you want to upload and click **Bundle Up** in the toolbar. The following dialog gives you the choice of uploading either your selection or any of the Program banks. Select one of the two options and then browse to the folder where the Bundle should be stored.



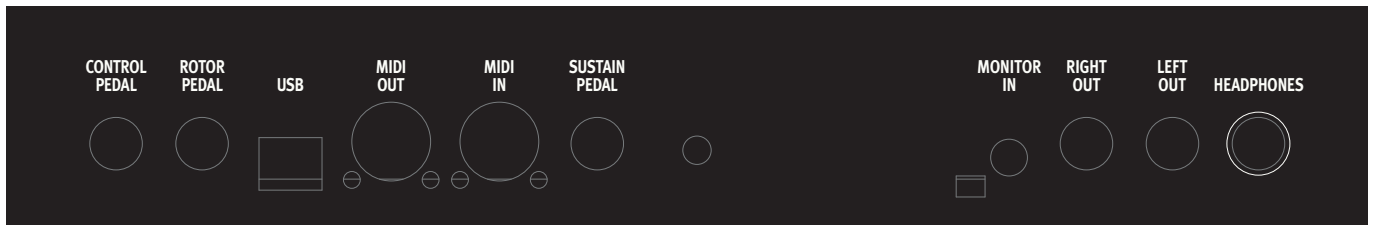
In order to transfer a Bundle to the Nord Electro 5, select the Program tab and use the dropdown menu at the top of the tab view to select which bank you want to add the Bundle content to. Press the **Bundle Down** button of the toolbar and a dialog will ask you to locate a Bundle (.ne5pb) file. Once you have selected a file, the Nord Sound Manager will verify that it contains valid Programs and sounds. You can then select whether to add the content of the Bundle to the bank you have selected, or replace the content of a bank of your choice.

BACKUP AND RESTORE

You can also make a full backup of your entire instrument, including its Programs, Set Lists and all pianos and samples. To do this, click the Backup button of the toolbar. Select a location for your backup file, and optionally change its name. By default it will be named "Backup YYYY-MM-DD.ne5b". Click Save to begin the backup process, which may take a little while to complete.

To restore your Nord Electro 5 from a backup file, click Restore in the toolbar. Browse to the backup (.ne5b) file that you want to restore from and click Open. A dialog will appear, asking you to confirm the restore operation. Within this dialog you can also click on the Show Details button to see the exact content and settings of the backup. Click Restore to go through with the restore operation.

I APPENDIX: CONNECTIONS



AUDIO CONNECTIONS

General guide on audio connections: Before you turn on your amplifier, make all audio connections. Always turn on your amplifier last, and when shutting down, always turn off your amplifier or active speakers first.

HEADPHONES

1/4 inch stereo headphone jack.

LEFT AND RIGHT OUT

Unbalanced line level outputs for amplifier or recording equipment. The Nord Electro 5 is a stereo instrument with separate signal paths for left and right audio channels.

i Using your Nord Electro 5 at a high volume can damage your hearing.

MONITOR IN

1/8 inch jack for connecting devices such as smartphones, tablets or computers to the Nord Electro 5, allowing you to play and rehearse to pre-recorded music. This input is routed to the Headphones output.

MIDI CONNECTIONS

MIDI IN

The MIDI In connection is used for receiving MIDI data sent from external devices such as controller keyboards or computers.

MIDI OUT

The MIDI Out connection will send MIDI data to devices such as external sound modules or computers.

USB CONNECTION

The USB port is used for connecting your Nord Electro 5 to a computer. The connection can be used for transferring MIDI, for OS updates and for connecting to applications such as the Nord Sound Manager and Nord Sample Editor. These applications, and the latest OS version can always be found for download at www.nordkeyboards.com.

i MIDI over USB and the standard MIDI connectors are always both active at the same time. There is no need to select one of the two options in a menu or similar.

PEDAL CONNECTIONS

SUSTAIN PEDAL

1/4 inch connector for all common types of sustain pedals. Sustain pedal polarity can be set in the Systems menu, see "System" on page 16.

ROTOR PEDAL

1/4 inch connector for a switch type pedal, sustain pedal or the optional half moon switch. Rotary speed will change when either the pedal is pressed or the half moon switch is operated. Depending on which pedal or control you are using, the appropriate Rotary Control Type and Rotary Pedal Mode can be selected in the System menu.

CONTROL PEDAL

1/4 inch connector for an expression pedal of the continuous type, used for controlling volume and/or effects. Most of the common expression pedal makes and models are supported, and can be selected in the System menu.

II APPENDIX: MIDI CONTROLLER LIST

Nord Electro 5 Parameter	MIDI CC #	Nord Electro 5 Parameter	MIDI CC #
Sustain	64	Sample Synth Attack	33
Control Pedal (Expression)	11	Sample Synth Release	34
		Sample Synth Sample	35
Part Lower Sound Engine Select	39	Sample Synth Dynamics	36
Part Upper Sound Engine Select	40	Sample Synth Filter Velocity	37
Part Lower Enable	41		
Part Upper Enable	42	Effect 1 Enable	69
Part Mix Level	13	Effect 1 Type	60
Ctrl Pedal Enable Part Lower	58	Effect 1 Rate	63
Ctrl Pedal Enable Part Upper	59	Effect 1 Part Select	71
KB Split Mode	50	Effect 1 Ctrl Pedal	73
KB Split Point	51		
Transpose Enable	52	Effect 2 Enable	80
Transpose Value	53	Effect 2 Type	61
Octave Shift Part Lower	54	Effect 2 Rate	62
Octave Shift Part Upper	55	Effect 2 Part Select	72
Sustain Pedal Enable Part Lower	56	Effect 2 Deep Mode	74
Sustain Pedal Enable Part Upper	57		
		Spkr/Comp Type	81
Program/Set List/Live mode toggle	48	Spkr/Comp Enable	86
Set List Slot Select	49	Spkr/Comp Drive	111
		Spkr/Comp Part Select	112
Piano Type	12		
Piano Model	44	Rotary Stop Mode	79
Piano Variation	45	Rotary Speed	82
Piano KBD Touch	46	Rotor Pedal	90
Piano Acoustic	98		
Piano Mono Mode	83	Delay Tempo	92
		Delay Ping Pong	93
Organ Preset Select	3	Delay Enable	94
Organ Model	9	Delay Dry/Wet	103
Organ Drawbar 1	16	Delay Feedback	104
Organ Drawbar 2	17	Delay Part Select	105
Organ Drawbar 3	18		
Organ Drawbar 4	19	Reverb Type	96
Organ Drawbar 5	20	Reverb Enable	97
Organ Drawbar 6	21	Reverb Dry/Wet	102
Organ Drawbar 7	22		
Organ Drawbar 8	23	EQ Treble	113
Organ Drawbar 9	24	EQ Enable	115
Organ Drawbar Live	25	EQ Mid	116
Organ Percussion Enable	87	EQ Mid Frequency	117
Organ Percussion Speed	88	EQ Bass	118
Organ Percussion Level	89	EQ Part Select	119
Organ Percussion Harmonic	95		
Organ Vibrato Type	84	Gain Level	7
Organ Vibrato Enable	85		

III INDEX

- A**
- Acoustics 8
 - A-D buttons 11
 - Audio connections 20
- B**
- B3 7
 - B3+Bass 8
 - B3+BASS 8
 - B3 Key Bounce 16
 - B3 Key Click 16
 - B3 Perc DB9 Mute 16
 - B3 Perc Decay Fast 16
 - B3 Perc Decay Slow 16
 - B3 Perc Volume Normal 16
 - B3 Perc Volume Soft 16
 - B3 Tonewheel Mode 16
 - Bundle Down 19
 - Bundle Up 19
- C**
- Channel Global 16
 - Channel Lower Receive 16
 - Channel Upper Receive 15, 16
 - Channel Upper Split 16
 - Computer 20
 - Connections 20
 - Control Change Mode 16
 - Control Pedal 20
 - Control Pedal Type 16
 - Copy to Live 6
- D**
- Del 12
 - Delete 18
 - Download 8, 17
 - Drawbars 7
 - DRWB Live 7
 - DRWB Sync 7
- E**
- Exit 13
 - External keyboard 15
- F**
- Farf 8
 - Fast 8
 - Fine Tune 16
- G**
- Global Transpose 16
- H**
- Headphones 20
- I**
- Ins 12
 - Installation 17
 - Internal memory 8
- K**
- KBD Touch 9
 - KB Split 8, 14
- L**
- List View 12
 - Local Control Mode 16
 - Long Release 8
- M**
- Max OSX 17
 - Memory Indicator 17
 - Memory Protect 16
 - Menus 16
 - MIDI 14
 - MIDI Connections 20
 - MIDI Controller List
 - MIDI CC 21
 - MIDI In 20
 - MIDI Menu 16
 - MIDI Out 20
 - MIDI Upper Receive 15
 - Model Display 8
 - Monitor In 20
 - Mono 9
- N**
- Ne5pb file format 19
 - Ne5p file format 19
 - Nord Piano Library 17
 - Nord Sample Library 18
 - Nord Sound Manager 17
 - Npno file format 18
 - Nsmp file format 18
- O**
- Organ 7
 - Organ B3 Trig 16
 - Organize 13
 - OS Update 20
 - Output Routing Mode 16
 - Outputs 20
- P**
- Partitions 17
 - Pedal connections 20
 - Percussion 8
 - Piano 8
 - Piano sizes 8
 - Piano String Res 16
 - Pipe 8
 - Pipe lengths 8
 - Preset 1 and 2 7
 - Principal Pipe organ 7
 - Program Change Mode 16
- R**
- Rotary Balance 16
 - Rotary Control 16
 - Rotary Horn Acc 16
 - Rotary Horn Speed 16
 - Rotary Pedal 16
 - Rotary Rotor Acc 16
 - Rotary Rotor Speed 16
 - Rotary Speaker Type 16
 - Rotating scanner 7
 - Rotor Pedal 20
- S**
- Samples 18
 - Samp Lib 17
 - Second harmonic 8
 - Set List 11
 - Shift 12
 - Soft 8
 - Song 11
 - Sound Down 19
 - Sound menu 16
 - Sound Up 19
 - Store 6
 - Store As... 6, 12
 - Store To 12
 - Storing Set Lists 12
 - String Res 9
 - String Resonance 9
 - Substitute 18
 - Sustain Pedal 16, 20
 - System menu 16
- T**
- Tabs 17
 - Third harmonic 8
 - Tone wheel 7
 - Tone wheel organ 7
 - Toolbar 17
 - Top Menu 17
 - Transistor organ 7, 8
- U**
- USB Connection 20
 - USB MIDI 20
- V**
- Velocity 9
 - Vibrato/Chorus 7, 8
 - VX 8
- W**
- Windows 17
 - www.nordkeyboards.com 8, 17, 18

FCC Information (U.S.A.)

1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Clavia may void your authority, granted by the FCC, to use the product.

2. IMPORTANT: When connecting this product to accessories and/ or another product use only high quality shielded cables. Cable/s supplied with this product **MUST** be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

3. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment is found to be the source of interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Unauthorized changes or modification to this system can void the users authority to operate this equipment.

This equipment requires shielded interface cables in order to meet FCC class B Limit.

For Canada

NOTICE

This Class B - digital apparatus complies with Canadian ICES-003.

AVIS

Cet appareil numérique de la classe B - est conforme à la norme NMB-003 du Canada.

DECLARATION OF CONFORMITY Compliance Information Statement

Model Name: Nord Electro 5D, Nord Electro 5HP

Type of Equipment: Digital Organ and piano

Responsible Party: Clavia DMI AB

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